

electrophoresis. The protein can be isolated and purified from the culture medium of fibroblasts. Furthermore, the protein can be produced by gene engineering.--

IN THE SPECIFICATION:

Applicants have amended the specification to correct translation errors and to claim benefit of an earlier filing date. No new matter is being introduced. Please enter the following amendments:

Page 1, After the title "Novel Proteins and Methods for Producing the Proteins" and before "Field of the Invention," insert --This is a divisional application of U.S.S.N. 08/915,004, filed on August 20, 1997, which was a continuation-in-part of PCT/JP96/00374, filed on February 20, 1996, and which designated the U.S. and claims priority to JP54977/1995, filed on February 20, 1995, and JP207508/1995, filed on July 21, 1995.--

Line 8, delete "In the process, osteoblasts" and insert --Osteoblasts--;

Line 10, after "of" (first occurrence) insert --a--; delete "the progression of";

Line 11, delete "The disease" and insert --Osteoporosis--; delete "be provoked" and insert --result--;

Line 12, delete "by the condition in which" and insert --when--;

Line 14, after "causes" insert --bone--; delete "in the bone"; after "makes" delete "the bone" and insert --bone's--;

Line 15, delete the line in its entirety and insert --fragile, leading to fracture, particularly in elderly patients.--;

Line 16, delete "bedridden old people, it has" and insert --Osteoporosis has therefore--;

Line 17, delete "old" and insert --elderly--; after "people" insert --in the population--; delete "efficacious" and insert --effective--;

Line 18, delete “the”;

Line 20, delete “balanced” and insert --balance of bone--;

Line 21, delete “expected to be”;

Line 22, delete “are reported” and insert --reportedly--; and

Line 23, delete “to”.

Page 2, Line 4, delete “Mol” and insert --Mol.--;

Line 5, after "M" insert a period --.--;

Line 7, after "A" insert a period --.--;

Line 9, delete "1993" and insert --1993)--;

Line 10, delete “inhibits” and insert --inhibit--;

Line 11, delete “have been paid attention and have”; and insert --have also--;

Line 14, delete “are found to”;

Line 15, delete “Macrophage” and insert --macrophage--;

Line 19, delete “are found”;

Line 21, delete “efficacious” and insert --effective--;

Line 23, delete “The cytokines” and insert --Cytokines--; delete “insulin like” and insert --insulin-like--; and

Line 24, delete “are now” and insert --have been--;

Page 3, Line 1, delete “effects in treatment of” and insert --effectiveness for treating--;

Line 2, delete “as a drug to care” and insert --to treat--; after “osteoporosis” (second occurrence) insert --patients--;

Line 6, delete “preparations .” and insert --preparations.--;

Line 7, delete "have been" and insert --are--;

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2

P.E.

Line 8, delete "As mentioned," and insert --Since--; delete "controlled" and insert --manifest--;

Line 9, delete ". Therefore";

Line 12, delete "Disclosure" and insert --Summary--;

Line 13, delete the line in its entirety and insert --The--;

Line 14, after "factor" insert a comma --,--;

Line 15, after "(OCIF)" insert a comma --,--;

Line 22, delete "using" and insert --on--; after "pieces" insert --, which function--;
and

Line 23, delete "the".

Page 4, Line 3, delete "chromatography," and insert --chromatography:--;

Line 5, delete "The inventors, based on" and insert --After determining--;

Line 6, delete the line in its entirety and insert --OCIF, a cDNA encoding this protein
was successfully cloned.--;

Line 7, delete the line in its entirety and insert --A procedure for producing this
protein was also established--;

Line 8, delete "differentiation of osteoclasts. This" and insert --The--;

Line 9, after "has" insert --a--; delete "weights in" and insert --weight by--;

Line 10, delete "in the" and insert --under--; before "non-reducing" delete "the"; after
"conditions," (second occurrence) and insert --and--;

Line 11, delete "heparin, reduces its activity" and insert --heparin.--;

Line 12, before "to" insert --The protein's ability--; after "inhibit" insert --the--; delete
"if" and insert --is reduced when--;

Line 13, delete "lose its activity" and insert --its ability--;

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N.E.-

Line 14, delete “by the treatment” and insert --is lost when treated--;

Line 15, delete “protein OCIF which is described in” and insert --OCIF protein of--;

Line 16, delete “of know factors inhibiting” and insert --other factors known to inhibit the--;

Line 18, delete “to purify” and insert --for purifying--; delete “comprising ;” and insert --comprising:--;

Line 23, before “(6)” insert --and--; and

Line 24, after “F3GA” insert --may be--.

Page 5, Line 1, delete the line in its entirety and insert --hydrophilic polymers, for example.--;

Line 2, delete “columns.” (first occurrence); delete “colomns” and insert --columns--;

Line 3, delete “accumulating the” and insert --producing--; delete “to a” and insert --in--;

Line 6, delete “the” (third occurrence):

Line 7, after “the” insert --oligonucleotide--;

Before Line 10 insert

--Brief Description of the Figures

Figure 1 shows the elution pattern of crude OCIF protein (Hiload-Q/FF pass-through fraction; sample 3) from a Hiload-S/HP column.

Figure 2 shows the elution pattern of crude OCIF protein (heparin-5PW fraction; sample 5) from a blue-5PW column.

Figure 3 shows the elution pattern of OCIF protein (blue-5PW fraction 49 to 50) from a reverse-phase column.

Figures 4A and 4B shows the SDS-PAGE of isolated OCIF proteins under reducing or non-reducing conditions. Description of the lanes:

lane 1, 4: molecular weight marker proteins;

lane 2, 5: OCIF protein of peak 6 in figure 3;

lane 3, 6: OCIF protein of peak 7 in figure 3.

Figure 5 shows the elution pattern of peptides obtained by the digestion of pyridyl ethylated OCIF protein digested with lysylendopeptidase, on a reverse-phase column.

Figure 6 shows the SDS-PAGE of isolated natural (n) OCIF protein and recombinant (r) OCIF proteins under non-reducing conditions. rOCIF (E) and rOCIF (C) proteins were produced in 293/EBNA cells and in CHO cells, respectively. Description of the lanes:

lane 1: molecular weight marker proteins;

lane 2: a monomer type nOCIF protein;

lane 3: a dimer type nOCIF protein;

lane 4: a monomer type rOCIF (E) protein;

lane 5: a dimer type rOCIF (E) protein;

lane 6: a monomer type rOCIF (C) protein;

lane 7: a dimer type rOCIF (C) protein.

Figure 7 shows the SDS-PAGE of isolate natural (n) OCIF proteins and recombinant (r) OCIF proteins under reducing conditions. rOCIF (E) and rOCIF (C) were produced in 293 EBNA cells and in CHO cells, respectively. Description of the lanes:

lane 8: molecular weight marker proteins;

lane 9: a monomer type nOCIF protein;

lane 10: a dimer type nOCIF protein;

lane 11: a monomer type rOCIF (E) protein;

lane 12: a dimer type rOCIF (E) protein;

lane 13: a monomer type rOCIF (C) protein;

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Line 21, delete the line in its entirety and insert --fibroblasts used for the production of OCIF protein are preferably IMR-90 cells. A--; and

Line 22, delete "the".

Page 6, Line 1, delete ", using" and insert --in--;

Line 2, delete "for the cell culture";

Line 4, delete "preferably" and insert --preferably--;

Line 5, before "purification steps of OCIF protein." and insert --protein purification procedure.--

Line 6, before "OCIF" insert --The--; delete "initially obtained" and insert --obtained initially--;

Line 7, delete "heparin binding basic" and insert --basic heparin binding--; delete "basic";

Line 9, delete "then by";

Line 10, before "non-" insert --the--;

Line 13, delete the period "." and insert a comma --,--; before "Cibacrone" insert --a--;

Line 14, delete "Elmer) and" and insert --Elmer).--;

Line 15, delete the line in its entirety.

Line 17, delete "method of" and insert --method for--;

Line 18, delete "protein that inhibits differentiation and/or" and insert --protein.--; and

Line 19, delete "maturation of osteoclasts.".

Page 7, Line 1, delete "was synthesized." and insert --is synthesized.--;

Line 4, delete "the" (second occurrence);

Line 5, delete "obtained" and insert --an--;

Line 6, delete "The recombinant" and insert --Recombinant--;

Line 7, after “cDNA” insert a comma --,--; after “region” insert a comma --,--;

Line 12, delete “by hybridization” and insert --and--; before “probe” insert --hybridization--;

Line 14, before “can be” insert --protein--;

Line 15, after “cDNAs” insert a comma --,--; after “region” insert a comma --,--;

Line 16, after “in” delete “the”; after “variant” insert --protein--;

Line 18, after “variant” insert --protein--; delete “an” and insert --the--;

Line 20, before “replacement” insert --the--; after “residue” insert a comma --,--; and

Line 21, delete “formation with serine residue, and” and insert --formation, with a serine residue or--.

Page 8, Line 1, delete “by”;

Line 2, delete “containing” and insert --having--;

Line 9, delete “As antigens (immunogens), natural” and insert --Natural--;

Line 11, delete “designed”;

Line 13, delete “used.” and insert --used as antigens.--;

Line 14, after “antigens” insert a comma --,--; delete “for immunization”;

Line 15, delete “purifying from the serum by the” and insert --and purifying the antibodies from the serum by--; delete “The”;

Line 16, delete “anti-OCIF” and insert --Anti-OCIF--; delete “rasioisotopes” and insert --radioisotopes--;

Line 17, delete “system or immunoassay (EIA) system.” and insert --systems or enzyme-immunoassay (EIA) systems.--;

N.E.

Line 18, delete "By using" and insert --Using--; delete "concentrations" and insert --concentration--;

Line 19, delete "blood and" and insert --blood,--; delete "cells-culture" and insert --cell-culture--;

Line 21, delete the line in its entirety;

Line 22, delete the line in its entirety; and

Line 23, delete the line in its entirety.

Page 9, Line 1, delete the line in its entirety;

Line 3, delete "to" and insert --for--; delete "determine" and insert --determining--;

Line 5, delete "the";

Line 6, delete "method" and insert --methods--;

Line 8, delete "using" and insert --transfected with--;

Line 9, delete "synthesized peptides designed" and insert --synthetic peptides--;

Line 11, delete "immunization of mammals" and insert --immunizing mammals such as mice or rats--;

Line 12, delete "myeloma of mammals" and insert --mammalian myeloma cells--;

Line 13, delete "hybridoma." and insert --hybridomas.--; delete "antibody" and insert --antibodies--; delete "recognizes" and insert --recognize--;

Line 14, delete the line in its entirety and insert --OCIF were selected and cultured to obtain the desired antibodies.--;

Line 15, delete the line in its entirety;

Line 16, delete the line in its entirety;

Line 17, delete the line in its entirety and insert --For immunizations, OCIF is suitably diluted with--;

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Line 17, delete "Thus obtained hybridoma" and insert --using EIA and purified OCIF.
Hybridomas obtained thereby--; delete "the";

Line 18, delete "method" and insert --methods--;

Line 19, delete "using the" and insert --cells using--;

Line 20, delete "method" and insert --methods--; after "hybridoma" insert --cells--;
delete "to" and insert --into live--;

Line 21, after "by" delete "the";

Line 22, delete "obtained";

Line 23, after "antibody" insert --obtained--; delete "for determination of" and insert -
-to determine--; and

Line 24, delete "for purification of OCIF." and insert --to purify OCIF protein.--.

Page 11, Line 1, delete "to" and insert --for--;

Line 2, delete "By (using)";

Line 3, delete "this assay system," and insert --This assay system is useful for
determining--;

Line 4, delete the line in its entirety and insert --blood and ascites.--;

Line 5, delete the line in its entirety and insert --The present invention provides
agents, containing OCIF as an--;

Line 6, delete "are provided by the present invention." and insert --ingredient, that are
useful for treating bone diseases.--;

Line 7, after "of" insert --the--;

Line 8, after "weeks" insert --of--;

Line 10, after "by" insert --the--;

Line 11, before "mechanical" insert --the--;

Line 13, delete "ingredients" and insert --ingredient--; after "in" insert --bone diseases--;

Line 14, delete "bone diseases such as"; delete "osteoarthritis," and insert --osteoarthritis--;

Line 15, delete "The";

Line 16, delete "to establish" and insert --in the--; delete "the" and insert --bone--;

Line 17, delete "the"; delete "ingredients" and insert --ingredient--;

Line 19, delete "efficacious" and insert --effective--; and

Line 20, delete "human" and insert --humans--; delete "the".

Page 12, Line 1, delete "the" and insert --a--; delete "efficacious" and insert --effective--;

Line 2, before "pharmaceutically" insert --a--; delete "carriers." and insert --carrier.--;

Line 4, after "compounds" insert a comma --,--;

Line 6, delete the line in its entirety and insert --activators for injection, pH adjusters, buffers, stabilizers,--;

Line 7 - Line 23: delete the lines in their entirety.

Page 13, Delete the page in its entirety.

Page 14, Line 1 to Line 19, delete the lines in their entirety.

Line 22, delete "however," and insert --though--; delete "to the" and insert --thereto.--; and

Line 23, delete "examples."

Page 15, Line 6, delete "under" and insert --in--;

Line 9, delete the comma ",";

Line 18, after "from" insert --a--;

Line 15, delete the line in its entirety and insert --activity, were pooled and designated sample 4.--;

Line 17, delete “fraction from” and insert --fractions--;

Line 18, after “to” insert --a--; and

Line 21, after “with” insert --a--.

Page 18, Line 1, delete "was" and insert --were--;

Line 2, delete “was” and insert --, were--;

Line 3, delete “was designated as” and insert --designated--;

Line 5, delete "was" and insert --were--;

Line 11, delete “The fractions number” and insert --Fractions--;

Line 12, after "NaCl" insert a comma --,--;

Line 14, delete “from 49 to” and insert --49 and--;

Line 17, delete “of” (second occurrence); after “with” insert --a--; and

Line 20, delete “peak 6 and the peak” and insert --peaks 6 and--.

Page 19, Line 11, delete “(6 and 7) with OCIF activity” and insert --with OCIF activity (peaks 6 and 7)--.

Page 20, Line 2, delete “were” and insert --are--;

Line 3, after “apparent” insert --molecular weight of--; delete “protein” and insert --sample--;

Line 7, delete “protein.” and insert --sample.--; and

Line 14, delete “were” and insert --are--.

Page 21, Line 6, delete “No. 51-70 of blue-5PW fraction was” and insert --fractions 50 to 70 of the blue-5PW fractions were--;

Line 7, delete “was”;

Line 8, delete "of";

Line 11, delete "peak 6 and peak" and insert --peaks 6 and--;

Line 12, delete "of" and insert --from--;

Line 14, delete "protein" and insert --proteins--; delete "N-terminal" and insert --the N-terminus--;

Line 15, delete "So, internal" and insert --Internal--;

Line 16, after "were" insert --therefore--;

Line 17, delete "of" and insert --from--; delete "peak 7" and insert --7--; after "C4-HPLC" insert a comma --,--;

Line 20, after "each" insert --of the--; delete "mixture was" and insert --mixtures were--;

Line 21, delete "a"; after "Each" delete "the"; and

Line 22, delete "was".

Page 22, Line 3, after "vacuum" delete the comma --,--;

Line 10, after "with" insert --a--; after "gradient" insert --of--;

Line 13, delete "were" and insert --are--; delete "Sequence" and insert --SEQ. ID Nos. 1-3--;

Line 14, delete "Numbers 1-3";

Line 16, before "nucleotide" insert --the--;

Line 18, delete "by"; and

Line 19, after "using" insert --a--.

Page 23, Line 1, delete "sequence numbers" and insert --SEQ. ID Nos.--;

Line 2, after "2F" insert --(SEQ. ID No. 107)--;

Line 5, after "3R" insert --(SEQ. ID No. 108)--;

Line 14, delete “sequence number” and insert --SEQ. ID No.--;

Line 15, delete “the polypeptide.” and insert --OCIF.--;

Line 22, after “using” insert --a--; and

Line 23, after “using” insert --a--.

Page 26, Line 5, after “using” insert --a--;

Line 7, after "7-i)" insert a comma --,--; before "EcoRI" insert --An--;

Line 8, after "from" delete "the"; after "adaptor" insert --DNA--;

Line 11, delete “with the adaptor was inserted in” and insert --comprising the adaptor was legated into a--;

Line 12, after “at” insert --the--;

Line 13, after “using” insert --a--;

Line 14, delete “and” and insert --, yielding a--; delete “was prepared”;

Line 17, delete “infected to E. Coli,” and insert --used to infect E. coli strain--;

Line 19, delete “on the” and insert --onto--;

Line 21, after “(Amersham)” insert --membranes--; after “of” insert --the--; and

Line 22, delete “the”.

Page 27, Line 1, delete “the standard protocol” and insert --standard methods--; delete “on” and insert --onto--;

Line 2, after “in” delete “the”;

Line 5, before “denatured” insert --of--;

Line 8, delete “about 1.6 kb” and insert --a--;

Line 9, after "insert" insert --of about 1.6kb--;

Line 10, delete "and the infected into E. Coli" and insert --was used to infect E. coli strain--;

Line 11, delete "a" and insert --the--; delete "of" and insert --in the--;

Line 13, delete "1OCIF" and insert --λOCIF--;

Line 20, delete "picking up" and insert --lifting--;

Line 21, delete "to" and insert --in the--; and

Line 24, delete "transfered" and insert --transferred--.

Page 28, Line 2, delete "the standard protocol" and insert --standard methods--;

Line 7, after "using" insert --a--;

Line 8, after "T7" delete "primers";

Line 10, delete "sequence numbers" and insert --SEQ. ID Nos.--;

Line 11, delete "sequence number" and insert --SEQ. ID No.--;

Line 12, delete "sequence number" and insert --SEQ. ID No.--;

Line 16, after "pBKOCIF" insert a comma --,--; after "cDNA" insert a comma --,--;

Line 17, delete the commas (both occurrences) " , ";

Line 18, after "electrophoresis" delete " , ";

Line 19, after "using" insert --a--;

Line 20, delete the line in its entirety and insert --insert was ligated into the--;

Line 21, after "(Invitrogen)" insert --using DNA ligation kit ver. 2 (Takara Shuzo), and--; after "enzymes" delete " , "; and

Line 22, delete "E. coli." and insert --E. coli strain--.

Page 29, Line 2, after "using" insert --a--;

Line 3, delete " , ";

662293-2908260

Line 4, delete "was used in the experiments" and insert --for use in the experiments--;

Line 5, delete "the" and insert --OCIF--;

Line 6, delete the comma ",";

Line 7, before "prepared" insert an open paren --(--;

Line 8, delete "in" and insert --into--; delete "the" and insert --a--;

Line 11, delete the comma ",";

Line 12, delete " and were" and insert --,--;

Line 17, delete "the transfected cells were incubated" and insert --incubation--;

Line 20, delete "mice, 17 days-old," and insert --17 day old mice--;

Line 22, delete "D₃, and each" and insert --D₃ and a--; and delete "inoculatd" and insert --inoculated--.

Page 30, Line 5, delete "then";

Line 7, delete "The decrease of" and insert --A decrease in--; and

Line 8, delete "As result, the" and insert --The--.

Page 31, Line 4, delete "of";

Line 5, delete "with" and insert --using a--;

Line 6, delete "50 ml of a" and insert --a 50 ml--;

Line 9, after "with" insert --a--;

Line 10, after "and" insert --8 ml--; delete "(8 ml)";

Line 12, delete "OCIF active fraction (112 ml)" and insert --An OCIF active 112 ml fraction,--; after "NaCl" insert a comma --,--;

Line 18, after "with" insert --a--;

Line 15, delete "to" and insert --into--;

Line 22, after "using" insert --a--; and delete "condition" and insert --the conditions--.

Page 34, Line 3, delete "Then the" and insert --The--; after "were" insert --then--;

Line 4, delete "in" and insert --into--;

Line 14, delete "the" and insert --a--; delete "amount" and insert --amounts--;

Line 15, after "OCIF," insert --named--;

Line 18, delete "the clone (5561)" and insert --clone 5561--; and

Line 20, delete "to".

Page 35, Line 2, delete "cells-conditioned" and insert --cell-conditioned--;

Line 3, delete "CHOcells-conditioned" and insert --CHO cell-conditioned--; delete "EXAMPL" and insert --EXAMPLE--;

Line 4, delete "of"; before "0.22" insert --a--;

Line 5, delete "Milipore" and insert --Millipore--;

Line 8, after "with" insert --a--;

Line 9, after "and" insert --8 ml--; delete "(8";

Line 10, delete "ml)";

Line 11, delete "Active" and insert --An active--;

Line 13, delete "of";

Line 14, delete "a" and insert --an--;

Line 17, after "with" insert --a--;

Line 18, delete the comma ",";

Line 19, delete "was" and insert --were--;

Line 20, delete "On SDS-PAGE";

Line 21, delete "a" and insert --A--; after "with" insert --an--; after "apparent" insert -
-molecular weight of--;

Line 22, delete ", under non-reducing conditions, bands" and insert --using SDS-
PAGE under reducing conditions. Bands--;

Line 23, after "apparent" insert --molecular weights of--; and before "were" insert --
using SDS-PAGE under non-reducing conditions--.

Page 36, Line 1, after "fraction," insert --from fractions--;

Line 3, delete "obtained when" and insert --obtained, as--.

Page 37, Line 8, delete "sequence No." and insert --SEQ. ID No.--;

Line 9, delete "the 22th amino" and insert --glutamine, located at position 22--;

Line 10, delete the line in its entirety and insert --from the translation start Met, as
shown in SEQ. ID No.--;

Line 11, delete "number";

Line 13, delete "was undetectable." and insert -- could not be determined.--;

Line 14, delete "converting from" and insert --the conversion of--;

Line 15, delete the line in its entirety and insert --cell culture or purification steps.--;

Line 18, delete "from" and insert --in--;

Line 20, delete "sample was" and insert --samples were--; and

Line 23, delete "in" and insert --of a--.

Page 38, Line 1, delete "mice, 17 days-old," and insert --17 day old mice--;

Line 2, delete "to" and insert --into--; delete "in" and insert --of a--;

Line 4, delete "a" and insert --an--; delete "mesuring" and insert --measuring--;

Line 5, delete "The" and insert --A--;

Line 6, delete “of” and insert --in--; after “as” insert --an indication of--; delete “The” and insert --A--;

Line 7, delete "of" and insert --in--;

Line 8, delete “In detail,” and insert --Briefly,--;

Line 11, after "590" insert a comma --,--;

Line 12, after “using” insert --a--;

Line 14, delete “was” and insert --were--;

Line 15, delete “The decrease of” and insert --A decrease in--;

Line 16, delete “of the” and insert --(the--;

Line 17, delete “which were”; and delete “OCIF” and insert --OCIF)--.

Page 39, Line 3, delete “in the concentration” and insert --at concentrations--; delete “higher” and insert --greater.--;

Line 6, delete “Effect” and insert --The effect--;

Line 9, delete “In detail,” and insert --Briefly, samples of--; delete “sample was” and insert --were--;

Line 10, delete “of”;

Line 11, delete the comma “,”; after “each” insert --of--;

Line 12, delete “in” and insert --of--;

Line 13, delete “;” and insert --at--;

Line 14, delete “FBS,” and insert --FBS--; delete “ddy mice, 8 weeks-old, ,” and insert --8 week old ddy mice at--;

Line 15, delete “to” and insert --into--; delete “in 96-well plates” and insert --of a 96-well plate--;

Line 11, delete "of" and insert --in--;

Line 20; please delete "in the concentration" and insert --at concentrations--; and delete "higher" and insert --greater--.

Page 42, Line 1, delete "Effect" and insert --The effect--;

Line 3, delete "In detail, each" and insert --Briefly, a sample of each of--; delete "sample was" and insert --were--;

Line 5, delete "the"; after "in" insert --a--;

Line 6, delete "plates." insert --plate.--;

Line 7, delete ";" and insert --at--;

Line 8, delete "ddy mouse, 8 weeks-old, ;" and insert -- 8 week old ddy mouse, at--;

Line 9, delete "to" and insert --into--; delete "in" and insert --of a--; delete "plates" and insert --plate--;

Line 12, after "under" insert --a--;

Line 13, after "as" insert --an indication of--;

Line 20, delete "in the concentration" and insert --at concentrations--; and delete "higher" and insert --greater--.

Page 43, Line 2, delete "would be able to" and insert --could--; delete "treatment of the" and insert --treating--;

Line 3, delete "with" insert --due to--; delete "which" and insert --that--;

Line 4, delete "which" and insert --that--;

Line 11, after "with" insert --a--;

Line 12, delete "Each the" and insert --The--;

Line 13, delete "was" and insert --were--;

Line 14, delete line in its entirety and insert --each lyophilized.--;

Line 16, before "molecular" insert --the--;

0033053-05330

Line 15, delete “the sequence number” and insert --SEQ. ID No.--;

Line 16, delete “the sequence number” and insert --SEQ. ID No.--;

Line 17, delete “the sequence number” and insert --SEQ. ID No.--;

Line 18, delete “the sequence number” and insert --SEQ. ID No.--;

Line 20, delete “the sequence number” and insert --SEQ. ID No.--; after “shown in” delete “the”;

Line 21, delete “sequence number” and insert --SEQ. ID No.--;

Line 22, delete “the sequence number” and insert --SEQ. ID No.--; and

Line 23, after “and are” insert --briefly--; and delete “in brief”.

Page 47, Line 1, before "OCIF2" insert --The--;

Line 2, after “in” insert --the--;

Line 2, delete "sequence number" and insert --SEQ. ID No.--;

Line 3, after “Accordingly” insert a comma --,--;

Line 5, delete "sequence number" and insert --SEQ. ID No.--;

Line 7, before "OCIF3" insert --The--;

Line 7, after “in” insert --the--;

Line 8, delete "sequence number" and insert --SEQ. ID No.--;

Line 9, after “Accordingly” insert a comma --,--; after “and” insert --an--;

Line 10, delete “sequence number” and insert --SEQ. ID No.--;

Line 11, delete “have” and insert --has--;

Line 12, delete “secreted” and insert --secretion of--;

Line 13, after “in” insert --the--;

Line 13, delete “sequence number” and insert --SEQ. ID No.--;

[illegible]

Line 15, after “Accordingly” insert a comma --,--;

Line 17, delete “sequence number” and insert --SEQ. ID No.--;

Line 19, after "in" insert --the--;

Line 19, delete “sequence number” and insert --SEQ. ID No.--;

Line 21, after “in” insert --the--;

Line 21, delete “sequence number” and insert --SEQ. ID No.--;

Line 23, after “Accordingly” insert a comma --,--; and

Line 24, after “sequence number” insert --SEQ. ID No.--.

Page 48, Line 4, delete “which is the” and insert --comprising--; after “of” insert --the--;

Line 5, after “in” insert --the--; delete “sequence” and insert --SEQ. ID No.--;

Line 6, delete "number";

Line 7, after “Accordingly” insert a comma --,--;

Line 8, delete “sequence” and insert --SEQ ID No. 5).--;

Line 9, delete the line in its entirety.

Line 11, before “OCIF5” (first occurrence) insert --The--; before “OCIF” (second occurrence) insert --the--;

Line 12, delete “sequence number” and insert --SEQ. ID No.--;

Line 13, after “Accordingly” insert a comma --,--; after “and” insert --an--;

Line 14, delete “sequence number” insert --SEQ. ID No.--;

Line 15, delete “have” and insert --has--;

Line 16, delete “secreted” and insert --secretion of--;

Line 17, before "OCIF5" insert --The--;

Line 18, delete “sequence number” insert --SEQ. ID No.--;

Line 20, after “Accordingly” insert a comma --,--;

Line 21, delete “sequence” and insert --SEQ. ID No.--; and

Line 22, delete “number 5).”.

Page 49, Line 3, delete “The Plasmid” and insert --Plasmids--; delete “was” and insert --were--;

Line 5, delete the comma “,”;

Line 6, delete the comma “,”;

Line 7, after “using” insert --a--;

Line 8, after “using” insert --a--;

Line 10, delete the comma “,”; delete “coli.” and insert --coli strain--;

Line 13, delete the comma “,”;

Line 14, delete “an”;

Line 15, after “using” insert --a--;

Line 16, after “using” insert --a--;

Line 17, delete “the” and insert --an--;

Line 18, delete the comma “,”; after “E. coli” insert --strain--;

Line 21, delete “was”; after “with” insert --the--; delete the comma “,”; and

Line 23, delete the comma “,”; and after “using” insert --a--.

Page 50, Line 1, after “with” insert --the--; delete the comma “,”;

Line 5, delete “an”; delete the comma “,”; after “using” insert --a--;

Line 7, after “using” insert --a--; delete “E. coli.” and insert --E. coli strain--;

Line 9, delete “obtained transformants” and insert --transformants obtained--; delete “variants” and insert --variant--;

Line 11, delete “column” and insert --columns--;

[illegible]

Line 11, delete “variants” and insert --variant--;

Line 13, delete “experiments” and insert --experiments--;

Line 16, delete “plasmid,” and insert --plasmids--;

Line 17, delete “prepared”; and

Line 20, delete “a”.

Page 51, Line 5, delete “a”;

Line 5, before “DNA” insert --A--;

Line 7, after “using” insert --a--;

Line 12, before “DNA” insert --A--;

Line 13, after “using” insert --a--;

Line 14, delete “The” and insert --This--;

Line 16, delete “of” (second occurrence) and insert --from a--;

Line 18, delete “for” and insert --in--;

Line 20, after “E. coli” insert --strain--;

Line 21, delete “was” and insert --were--;

Line 22, delete “to the cells”;

Line 23, delete “was added”; and after “NaCl” insert --was added to the cells--;

Page 52, Line 3, delete “individually” and insert --each--;

Line 4, delete “each”;

Line 4, delete “of” (second occurrence);

Line 10, after “with” insert --a--; and

Line 14, after “with” insert --a--.

Page 53, Line 13, delete “SEQUENCE NO:” and insert --SEQ. ID Nos.--;

662290-2903260

Line 14, delete “as follows”;

Line 16, after “min” (first occurrence) insert a comma --,--;

Line 18, delete “size” and insert --sizes--;

Line 18, delete “prodcts was” and insert --products were--;

Line 19, delete “using” and insert --of the--; delete “solution” and insert --solutions--;

and

Line 20, after “using” insert --an--.

Page 54, Line 16, delete “size” and insert --sizes--; delete “products was” and insert --products were--; and

Line 19, delete “mutation” and insert --mutations--.

Page 55, Line 7, delete “was” (second occurrence) and insert --were--;

Line 9, delete “with” and insert --using a--;

Line 11, delete “as”;

Line 12, delete “of” (fourth occurrence) and insert --from a--;

Line 13, after “and” insert --the--;

Line 14, delete “E. coli DH5 α ” and insert --E. coli strain DH5 α --;

Line 16, delete “a”;

Line 19, delete “which is”;

Line 21, delete “with” and insert --using a--; and

Line 24, delete “of” and insert --from a--.

Page 56, Line 1, after "and" insert --the--;

Line 1, after “E. coli” insert --strain--;

Line 3, delete “a” (second occurrence);

Atty. Docket No.: FJN-060L
Page 33

Line 8, delete “with” and insert --using a--;

Line 10, delete “as”;

Line 11, delete “of” and insert --from a--;

Line 12, after “and” insert --the--;

Line 12, after “E. coli” insert --strain--;

Line 14, delete “a” (second occurrence);

Line 19, delete “with” and insert --using a--;

Line 21, delete “was” (second occurrence) and insert --were--; and

Line 23, delete “with” and insert --using a--.

Page 57, Line 2, delete “of” (fourth occurrence) and insert --from a--;

Line 3, after “and” insert --the--;

Line 4, after “E. coli” insert --strain--;

Line 6, delete “a”;

Line 13, delete “with” and insert --using a--;

Line 15, delete “was” (second occurrence) and insert --were--;

Line 17, delete “with” and insert --using a--;

Line 20, delete “of” (fourth occurrence) and insert --from a--;

Line 21, after “and” insert --the--;

Line 22, after “E. coli” insert --strain--; and

Line 23, delete “a” (second occurrence).

Page 58, Line 10, delete “a”;

Line 10, delete "was" and insert --were--;

Line 16, delete “of” (second occurrence) and insert --from a--;

Line 17, after "and" insert --the--;

Line 18, after "coli" insert --strain--; and

Line 22, delete "plasmide" and insert --plasmids--.

Page 59, Line 4, delete "of" (second occurrence);

Line 6, delete "and" and insert --or--;

Line 7, delete "SEQUENCE NO:" and insert --SEQ. ID No.--;

Line 12, delete "SEQUENCE NO:" and insert --SEQ. ID Nos.--; and

Line 12, after "40-53" delete the comma --,--.

Page 60, Line 2, delete "fragment" and insert --fragments--;

Line 6, delete "which is";

Line 8, delete "with" and insert --using a--;

Line 10, delete "was" (second occurrence) and insert --were--;

Line 12, delete "with" and insert --using a--;

Line 15, delete "of" (third occurrence) and insert --from a--;

Line 16, after "and" insert --the--;

Line 17, after "E. coli" insert --strain--;

Line 18, delete "a" (second occurrence);

Line 23, delete "with" and insert --using a--;

Page 61, Line 1, delete "as" (first occurrence);

Line 3, after "and" insert --the--; after "E. coli" insert --strain--;

Line 6, delete "DNA ." and insert --DNA.--;

Line 10, delete "with" and insert --using a--;

Line 12, delete "as";

66290-09860

Line 13, delete “of” and insert --from a--;

Line 14, after “and” insert --the--; after “E. coli” insert --strain--; and

Line 21, delete “with” and insert --using a--.

Page 62, Line 2, delete "as"; delete "was" (second occurrence) and insert --were--;

Line 4, delete “with” and insert --using a--;

Line 6, delete “as”;

Line 8, delete "of" and insert --from a--;

Line 8, after “and” insert --the--;

Line 9, after “E. coli” insert --strain--; and

Line 11, delete “a”;

Line 16, delete “with” and insert --using a--;

Line 19, delete “of” and insert --from a--;

Line 20, after “and” insert --the--;

Line 20, after “E. coli” insert --strain--; and

Line 22, delete “a” (second occurrence).

Page 63, Line 3, delete “with” and insert --using a--;

Line 6, delete “of” and insert --from a--;

Line 7, after “and” insert --the--;

Line 7, after “E. coli” insert --strain--;

Line 9, delete “a” (second occurrence); and

Line 15, after “containing” insert --the--.

Page 64, Line 1, delete "of" and insert --from a--;

Line 1, after “and” insert --the--;

[illegible]

Line 2, after "E. coli" insert --strain--;

Line 4, delete "a" (second occurrence);

Line 12, delete "of";

Line 15, delete "SEQUENCE NO:" and insert --SEQ. ID No.--; and

Line 20, delete "SEQUENCE NO:" and insert --SEQ. ID Nos.--.

Page 65, Line 3, delete "with" and insert --using a--;

Line 5, delete "as";

Line 7, delete "of" and insert --from a--; after "and" insert --the--;

Line 8, after "E. coli" insert --strain--;

Line 10, delete "a";

Line 12, after "pSK-OCIF-CL" insert a period --.;

Line 13, after "PCR" insert --reaction--; and

Line 15, after "OCIF-CCR3" insert --were as follows:--.

Page 66, Line 3, delete "with" and insert --using a--;

Line 6, delete "SEQUENCE NO:" and insert --SEQ. ID Nos.--;

Line 12, delete "an";

Line 14, delete "The size of the PCR products was confirmed on an agarose gel.";

Line 15, after "using" insert --an--; and

Line 21, after "containing" insert --the--.

Page 67, Line 3, delete "CC R3" and insert --CCR3--;

Line 14, delete "isolatedand" and insert --isolated and --;

Line 16, delete "of" (second occurrence);

Line 18, delete "of" (second occurrence) and insert --from a--;

Line 19, after “and” insert --the--; and

Line 19, after “E. coli” insert --strain--.

Page 68, Line 1, after “in” (first occurrence) insert --the--;

Line 2, after "plasmid," insert --the--; delete "were" and insert --was--;

Line 7, delete “truncation” and insert --truncations--;

Line 8, delete “truncation” and insert --truncations--;

Line 9, delete “truncation” and insert --truncations--; before “OCIF” insert --An--;

Line 10, delete “of”; delete “are” and insert --were--;

Line 11, delete “of Leu-Val” and insert --(Leu-Val)--; before “OCIF” insert --An--;

Line 12, delete “of” (first occurrence); delete “are” and insert --were--; delete “of Ser-Leu-Asp” and insert --(Ser-Leu-Asp)--;

Line 13, before "OCIF" insert --An--; delete "of";

Line 14, delete “are” and insert --were--; delete “OCIF muatant” and insert --An OCIF mutant--;

Line 15, delete “of” (first occurrence); delete “are” and insert --were--; delete “of Leu-Val” and insert --(Leu-Val)--;

Line 17, delete "SEQUENCE NO:" and insert --SEQ. ID No.--;

Line 18, delete “was” and insert --were--; delete “one of the”;

Line 19, delete “restriction enzymes,”; delete “, and” and insert --or--;

Line 20, delete “, and”;

Line 21, delete “Ends” and insert --The ends--;

Line 22, after “in” (second occurrence) insert --a--; and

Line 23, delete “volumes” and insert --volume--.

Page 69, Line 2, delete "of" and insert --from a--;

Line 4, after “E. coli” insert --strain--;

Line 8, delete “for”;

Line 9, delete “pSK-OCIF- CSph” and insert -- pSK-OCIF-CSph--;

Line 10, delete “of”;

Line 11, after “containing” insert --the--;

Line 13, delete “contain” and insert -- contained--; delete “pSK-OCIF- CSph” and insert --pSK-OCIF-CSph--;

Line 14, delete "and" and insert --or--; delete "as";

Line 18, delete “of” (second occurrence) and insert --from a--;

Line 19, after “and” insert --the--;

Line 20, after “coli” insert --strain--;

Line 22, after “which ” insert --the--;

Line 23, please delete "is" and insert --was--; and

Line 25, delete “and” and insert --or--.

Page 70, Line 3, delete "Preparation" and insert --Preparation--; after "(" insert --a--;

Line 5, after “by” insert `--using--`; delete “column” and insert `--columns--`;

Line 13, delete “A 24-well plate was used for the DNA”;

Line 14, delete “transfection.”;

Line 15, delete “the” and insert --a 24 well--;

Line 17, delete “Mixture of an” and insert --A mixture of the--;

Line 19, delete "a CO₂ incubator" and insert --5% CO₂--;

Line 21, delete "48 more" and insert --a further 48--; delete "the CO₂ incubator" and insert --5% CO₂--;

Line 22, delete "for assay" and insert --in assays--;

Line 23, delete "SEQUENCE NO:" and insert --SEQ. ID Nos.--; and

Line 24, delete "SEQUENCE NO:" and insert --SEQ. ID No.--.

Page 71, Line 2, delete "Antigen" and insert --The Antigen--;

Line 3, delete "specific" and insert --the--; and

Line 4, delete "the" and insert --each--; delete "the".

Page 72, Line 4, after "OCIF" insert a semicolon -;--;

Line 5, after "50%" please insert a semicolon -;--;

Line 7, after "activity" insert a period --.;

Line 8, delete "western" and insert --Western--;

Line 10, delete "the" and insert --each--;

Line 11, delete "bromo phenol" and insert -- bromophenol --;

Line 12, after ")" insert a comma --,--; delete "a"; delete "polyacryl amide" and insert --polyacrylamide--;

Line 16, delete "peroxidase labeled" and insert -- peroxidase-labeled --;

Line 18, after "using" insert --an--;

Line 20, after "exclusively" insert --a--; after "for" insert --the--; and

Line 21, after "CC" insert --mutants--; delete "an".

Page 73, Line 3, delete "resare" and replace with "residues are";

Line 4, delete "SEQUENCE NO:" and insert --SEQ. ID No.--.

Page 74, Line 5, delete "purchased from STRATAGENE" and insert --(Stratagene)--;

Line 8, delete “also were” and insert --were also--;

Line 11, delete “on” and insert --onto--;

Line 16, delete “successively for one minute each” and insert --each one--;

Line 17, after “7.5)” insert --, successively for one minute--; delete “wet” and insert -- wetted--; and

Line 19, delete “on” and insert --onto--; delete “in” and insert --using a--.

Page 75, Line 7, delete “PFOTO” and insert --pFOTO--; and

Line 13, delete “on” and insert --onto--.

Page 76, Line 8, delete "the";

Line 10, delete “the”;

Line 13, delete “determination of the” and insert --determining their--;

Line 14, delete the comma “,”;

Line 15, delete “these from” and insert --therefrom--;

Line 16, delete “pairs” and insert --pair--; after “using” insert --a--; and

Line 20, after “(STRATEGENE)” insert a comma --,--.

Page 77, Line 3, after “and” insert --a--; delete “of”;

Line 5, delete “in” and insert --into--;

Line 8, delete "in" (second occurrence) and insert --into a--;

Line 11, delete “applied” and insert --separated--;

Line 11, delete “in” and insert --into--;

Line 15, delete “pBS6 H1.1” and insert -- pBS6H1.1--;

Line 17, after “using” insert --a--;

Line 18, after "and" insert --a--;

[illegible]

Line 23, after “Nucleotide” insert --The nucleotide--; delete “was” and insert --is--;
and

Line 24, delete “Sequence No” (first occurrence) and insert --SEQ. ID No.-- delete “Sequence No” (second occurrence) and insert --SEQ. ID No.--.

Page 78, Line 2, delete “of nucleotides”; delete “sequence” and insert --SEQ. ID--;

Line 3, delete “sequence” and insert --SEQ. ID No.--;

Line 8, delete “for” and insert --in--; delete “Three male JW rabbits (Kitayama”;

Line 9, delete “the line in its entirety and insert --For--;

Line 10, after “immunization,” insert --an--;

Line 11, delete “The” and insert --Three--;

Line 12, delete “the interval of”; after “week” insert --intervals--;

Line 13, delete "The rabbits were injected six times at the interval";

Line 14, delete “of seven days subcutaneously”;

Line 15, delete “separated” and insert --isolated--;

Line 17, delete "40 w/v %," and insert --40% w/v, the--;

Line 18, delete “. Precipitate” and insert --The precipitate--;

Line 20, delete “resulting” and insert --resultant--;

Line 22, delete "Elutes were" and insert --The eluate was immediately--; and

Line 23, delete “immediately and were” and insert --and--.

Page 79, Line 2, delete “peroxidase labeled” and insert --peroxidase-labeled--; after “using” insert --an--;

Line 6, delete “separated by” and insert --separated using a--;

Line 6, delete "Protein pool" and insert --The protein pool was--;

Line 7, delete "maleimide activated" and insert --maleimide-activated--; delete "was" and insert --and--;

Line 12, delete "4C" and insert --4°C--;

Line 14, delete "of";

Line 16, delete "peroxidase labeled" and insert -- peroxidase-labeled --;

Line 17, delete "temperture" and insert --temperature--; and

Line 21, delete "standared" and insert --standard--; delete "was" and insert --is--.

Page 80, Line 2, after "of" insert --a--;

Line 3, after "from" insert --the--; delete "fibroblasts" and insert --fibroblast--;

Line 4, after "IMR-90" insert --cells--;

Line 4, delete "Eample" and insert --Example--;

Line 6, delete "administrating" and insert --administering--;

Line 7, after "emulsion" insert --was--;

Line 8, delete "was administered"; delete "administration" and insert --immunization--;

Line 9, delete "taken out," and insert --removed and--;

Line 10, delete "were";

Line 11, delete "the conventinal method" and insert --conventional methods--;

Line 12, delete "hybridoma" and insert -- hybridomas--; delete "Subsequently, to check";

Line 13, delete "whether the selected hybridomas produce anti-OCIF antibody," and insert --The presence of--;

Line 14, delete "each" and insert --the--; delete "hybridomas" and insert --each hybridoma--; delete "which" and insert --. Briefly,--;

Line 15, delete "was prepared by coating"; delete "in" and insert --of a--; delete "immunoplates" and insert -- immunoplate--; after "(Nunc)" insert --was coated--;

Line 16, delete "by blocking each well" and insert --blocked--;

Line 18, after "by" insert --by limit dilution--; delete "by limit dilution";

Line 19, delete "screening using the above"; delete ". Among thus obtained" and insert --screening--;

Line 20, delete the line in its entirety and insert --Several hybridoma clones producing high levels of anti-OCIF--; and

Line 23, delete ", which was".

Page 81, Line 1, delete the comma ","; delete "to" and insert --into--;

Line 2, after "(Aldrich)" insert a comma --,--;

Line 3, delete "the transplantation and the ascites containing" and insert --transplantation, thereby obtaining--;

Line 4, delete "was obtained" and insert a period --.--;

Line 6, delete "maufacturer's" and insert --manufacturer's--; delete "That is" and insert --Briefly--;

Line 7, after "ascites" insert --fluid--; after "with" insert --an--;

Line 8, after "to" insert --a--; delete "the" (second occurrence);

Line 10, delete "obtained eluate" and insert --eluate obtained--;

Line 11, delete "obtained antibody" and insert --antibody thereby obtained--;

Line 13, after "of" insert --a--; delete "to" and insert --for--;

Line 23, delete “sample.”

Line 18, delete “administered OCIF” and insert --with OCIF administered--.

Line 13, delete “microorgainsm” and insert --microorganism--.